

#### UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

SHINTANI

Examiner

S.N. Macfarlane

Serial No.:

10/547532

Group Art:

1649

Filed:

August 31, 2005

Docket:

20039.0001USWO

Confirmation No.:

1634

Notice of Allow Date: n/a

Due Date:

July 5, 2008

Title:

MEDICINAL USE OF MIP-3α INHIBITOR AND METHOD OF SCREENING BRAIN/NERVE CELL PROTECTIVE AGENT

CERTIFICATE UNDER 37 C.F.R 1.10

Express Mail mailing label number: EM 088199283 US

Date of Deposit: July 1, 2008

I hereby certify that the papers listed below are being deposited with the United States Postal Service Express Mail Post Office to Addressee service under 37 C.F.R 1.10 in an envelope addressed to: Mail Stop Sequence, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Mail Stop Sequence Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

PATENT TRADEMARK OFFICE

Sir:

The following papers are transmitted herewith:

Transmittal Sheet in duplicate containing Certificate of Mailing

Submission of Computer Readable Sequence Listing

Computer readable form of a Sequence Listing and paper copy (13 pages). Applicants state that the paper copy of the Sequence Listing submitted herewith and the computer readable form

submitted herewith, are the same.

Copy of CRF Diskette Problem Report mailed June 5, 2008 Verification Summary Report dated June 30, 2008

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Please charge any additional fees or credit overpayment to Deposit Account No. 50-3478. A duplicate of

this sheet is enclosed.

Hamre, Schumann, Mueller & Larson, P.C. P.O. Box 2902 Minneapolis, MN 55402-0902 612.455-3800

Name: Douglas P. Mueller

Reg. No.: 30,300 Initials: DPM/pjk

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Name: Stephanie Samuell

Mail Stop Sequence Commissioner for Patents P.O. Box 1450

Alexandria, VA 22313-1450

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UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450
Alexandria, Virginia 22313-1450

THA	DENT	•					
APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.			
10/547,532	08/31/2005	Yasushi Shintani	20039.1USWO 1634				
	7590 06/05/2008 UMANN, MUELLER & I	ARSON P.C	EXAM	INER ,			
P.O. BOX 2902	2	MACFARLANE	MACFARLANE, STACEY NEE				
MINNEAPOLI	S, MN 55402-0902		ART UNIT	PAPER NUMBER			
			1649				
			MAIL DATE	DELIVERY MODE			
			06/05/2008	PAPER			

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

RESPONSE DUE 7/5/2008 Resp. STAT: 12/5/2008





## UNITED STATES DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office

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**APPLICATION NOJ** FILING DATE FIRST NAMED INVENTOR / ATTORNEY DOCKET NO. PATENT IN REEXAMINATION CONTROL NO. 20039.1USWO 10547532 8/31/2005 SHINTANI ET AL.

HAMRE, SCHUMANN, MUELLER & LARSON, P.C. P.O. BOX 2902 MINNEAPOLIS, MN 55402-0902

**EXAMINER** STACEY MACFARLANE

**ART UNIT PAPER** 

1649 20080528

DATE MAILED:

Please find below and/or attached an Office communication concerning this application or proceeding.

#### **Commissioner for Patents**

This application contains sequence disclosures that are encompassed by the definitions for nucleotide and/or amino acid sequences set forth in 37 CFR 1.821(a)(1) and (a)(2). However, this application fails to comply with the requirements of 37 CFR 1.821 through 1.825 for the reason(s) set forth below or on the attached Notice To Comply With Requirements For Patent Applications Containing Nucleotide Sequence And/Or Amino Acid Sequence Disclosures. A computer readable form (CRF) of the sequence listing was submitted. However, the CRF could not be processed by the Scientific and Technical Information Center (STIC) for the reason(s) set forth on the attached CRF Diskette Problem Report dated February 21, 2008.

Applicant is given ONE MONTH, or THIRTY DAYS, whichever is longer, from the mailing date of this letter within which to comply with the sequence rules, 37 CFR 1.821 - 1.825. Failure to comply with these requirements will result in ABANDONMENT of the application under 37 CFR 1.821(g). Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a). In no case may an applicant extend the period for reply beyond the SIX MONTH statutory period. Direct the reply to the undersigned. Applicant is requested to return a copy of the attached CRF Diskette Problem Report with the reply.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to STACEY MACFARLANE whose telephone number is (571)270-3057. The examiner can normally be reached on M,W and ALT. F 6 am to 3 pm, T & R 5:30 am - 4 pm..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey Stucker can be reached on (571) 272-0911. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pairdirect uspto gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

> /John D. Ulm/ Primary Examiner, Art Unit 1649



Sequence Listing could not be accepted due to errors.

See attached Validation Report.

If you need help call the Patent Electronic Business Center at (866) 217-9197 (toll free).

Reviewer: Anne Corrigan

Timestamp: [year=2008; month=1; day=25; hr=17; min=43; sec=12; ms=958; ]

\_\_\_\_\_\_

\*\*\*\*\*\*\*\*\*\*\*

Reviewer Comments: SEQUENCE LISTING

<110> SHINTANI et al.

<120> MEDICINAL USE OF MIP-3a INHIBITOR AND METHOD OF SCREENING BRAIN/NERVE CELL PROTECTIVE AGENT

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		-25					-20				٠.	-15				
ctg	ctg	gct	cac	ctc	tgc	agc	cag	gca	gaa	gca	gca	agc	aac	tac	gac	96
Leu	Leu	Ala	His	Leu	Cys	Ser	Gln	Ala	Glu	Ala	Ala	Ser	Asn	Tyr	Asp	•
	-10					-5				-1	1				5	
tgt.	tgc	ctc	tcg	tac	ata	cag	acg	cct	ctt	cct	tcc	aga	gct	att	gtg	144
Cys	Cys	Leu	Ser	Tyr	Ile	Gln	Thr	Pro	Leu	Pro	Ser	Arg	Ala	Ile	Val	
				10					15					20		
ggt	ttc	aca	aga	cag	atg	gcc	gat	gaa	gct	tgt	gac	att	aat	gct	atc	192
Gly	Phe	Thr	Arg	Gln	Met	Ala	Asp	Glu	Ala	Cys	Asp	Ile	Asn	Ala	Ile	
			25					30					35			
atc	ttt	cac	acg	aag	aaa	aga	aaa	tct	gtg	tgc	gct.	gat	cca	aag	cag	240
Ile	Phe	His	Thr	Lys	Lys	Arg	Lys	Ser	Val	Cys	Ala	Asp	Pro	Lys	Gln	
		40		•			45					50				
aac	tgg	gtg	aaa	agg	gct	gtg	aac	ctc	ctc	agc	cta	aga	gtc	aag	aag	288
Asn	Trp	Val	Lys	Arg	Ala	Val	Asn	Leu	Leu	Ser	Leu	Arg	Val	Lys	Lys	
	55					60			•		65					
atg																291
Met												•				

70 In the above last line, "70" is not properly aligned under "Met," the last amino acid. Same type of error in Sequence 7.

\*\*\*\*\*\*\*\*\*\*

# Validated By CRFValidator v 1.0.3

Application No:

10547532

Version No:

2.0

Input Set:

Output Set:

**Started:** 2008-01-17 13:20:25.407. **Finished:** 2008-01-17 13:20:35.219

Elapsed: 0 hr(s) 0 min(s) 9 sec(s) 812 ms

Total Warnings: 17
Total Errors: 25

No. of SeqIDs Defined: 21

Actual SeqID Count: 21

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E	201	Mandatory field data missing in <223> in SEQ ID (1)
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E	201	Mandatory field data missing in <223> in SEQ ID (3)
E	201	Mandatory field data missing in <223> in SEQ ID (3)
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E	201	Mandatory field data missing in <223> in SEQ ID (5)
E	201	Mandatory field data missing in <223> in SEQ ID (5)
E	201	Mandatory field data missing in <223> in SEQ ID (5)
W	112	Upper case found in data; Found at position(291) SeqId(5)
E	259	Found undefined lettercode; POS (293) SEQID(5)
E	254	The total number of bases conflicts with running total, Input: 70, Calculated: 294 SEQID(5)
E	253	The number of bases differs from <211> Input: 291 Calculated:294
E	201	Mandatory field data missing in <223> in SEQ ID (7)
W	112	Upper case found in data; Found at position(1122) SeqId(7)
E	259.	Found undefined lettercode; POS (1124) SEQID(7)
W	112	Upper case found in data; Found at position(1125) SeqId(7)
E	259	Found undefined lettercode; POS (1127) SEQID(7)
W	112	Upper case found in data; Found at position(1128) SeqId(7)

# Input Set:

# Output Set:

Started: 2008-01-17 13:20:25.407

Finished: 2008-01-17 13:20:35.219

Elapsed: 0 hr(s) 0 min(s) 9 sec(s) 812 ms

Total Warnings: Total Errors: 25

No. of SeqIDs Defined: 21

Actual SeqID Count:

21

Erre	or code	Error Description
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E	259	Found undefined lettercode; POS (1134) SEQID(7)
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W	112	Upper case found in data; Found at position(1137) SeqId(7)
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E	254	The total number of bases conflicts with running total, Input: 370, Calculated: 1140 SEQID(7)
E	253	The number of bases differs from <211> Input: 1122
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E	224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (11) $$
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E	224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (12) $$
W	402	Undefined organism found in <213> in SEQ ID (13)
E	201	Mandatory field data missing in <223> in SEQ ID (13)
W	402	Undefined organism found in <213> in SEQ ID (15)
£	201	Mandatory field data missing in <223> in SEQ ID (15)
W	213	Artificial or Unknown found in <213> in SEQ ID (16)
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W	213	Artificial or Unknown found in <213> in SEQ ID (18)
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Input Set:

Output Set:

**Started:** 2008-01-17 13:20:25.407

Finished: 2008-01-17 13:20:35.219

Elapsed: 0 hr(s) 0 min(s) 9 sec(s) 812 ms

Total Warnings: 17

Total Errors: 25

No. of SeqIDs Defined: 21

Actual SeqID Count: 21

Error code Error Description

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# <110> SHINTANI et al. <120> MEDICINAL USE OF MIP-3a INHIBITOR AND METHOD OF SCREENING BRAIN/NERVE CELL PROTECTIVE AGENT <130> 20039.0001USWO <140> 10547532 <141> 2008-01-17 <150> PCT/JP2004/002774 <151> 2004-03-04 <150> JP 2003-056885 <151> 2003-03-04 <150> JP 2003-106247 <151> 2003-04-10 <160>. 21 <170> PatentIn version 3.1 <210> 1 <211> 288 <212> DNA <213> Homo sapiens <220> <221> CDS <222> (1)..(288) <223> <220> <221> sig\_peptide <222> (1)..(78) <223> <220> <221> mat\_peptide <222> (79)..() <223> <400> 1 atg tgc tgt acc aag agt ttg ctc ctg gct gct ttg atg tca gtg ctg 48 Met Cys Cys Thr Lys Ser Leu Leu Leu Ala Ala Leu Met Ser Val Leu -20 -25 96 cta ctc cac ctc tgc ggc gaa tca gaa gca gca agc aac ttt gac tgc Leu Leu His Leu Cys Gly Glu Ser Glu Ala Ala Ser Asn Phe Asp Cys -5 -1 1 tgt ctt gga tac aca gac cgt att ctt cat cct aaa ttt att gtg ggc

Cys Leu Gly Tyr Thr Asp Arg Ile Leu His Pro Lys Phe Ile Val Gly

15 ttc aca cgg cag ctg gcc aat gaa ggc tgt gac atc aat gct atc atc

192

10

SEQUENCE LISTING

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       25
                                                                   240
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Phe His Thr Lys Lys Lys Leu Ser Val Cys Ala Asn Pro Lys Gln Thr
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                       45
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                  -5
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                                -1 1
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Leu Thr Tyr Thr Lys Asn Val Tyr His His Ala Arg Asn Phe Val Gly
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Phe His Leu Lys Ser Lys Arg Ser Val Cys Ala Asp Pro Lys Gln Ile
                                     50
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ctg ctg gct cac ctc tgc agc cag gca gaa gca gca agc aac tac gac
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Ile Phe His Thr Lys Lys Arg Lys Ser Val Cys Ala Asp Pro	
40 45 50	_
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10 15	20
Gly Phe Thr Arg Gln Met Ala Asp Glu Ala Cys Asp Ile As	n Ala Ile
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Met Leu Leu Cys Ser Leu Gln Glu Val Arg Gln Phe Ser Are	g Leu Phe

σta	ccg	att	acc	tac	tcc	tta	atc	tat	áta	ttt	aac	ctc	cta	aaa	aat	192
	Pro		-			_		_	-							
	50					55					60					
	ctg		-													240
	Leu	Val	Val	Ile		Phe	Ala	Phe	Tyr	_	Lys	Ala	Arg	Ser		
65		a+ -	•	at a	70	225	25.00	~~~		75	~~~				80	288
	gac Asp				-											200
****			-,-	85					90					95		
ctt	act	ctc	cca	ttc	t gg	gca	gtg	agt	cat	gcc	act	ggt	gcg	tgg	gtt	336
Leu	Thr	Leu	Pro	Phe	Trp	Ala	Val	Ser	His	Ala	Thr	Gly	Ala	Trp	Val	
			100				•	105					110			
	agc												_	٠,		384
Phe	Ser	115	Ala	Inr.	cys	гуя	120	ren	гĀя	GIĀ	116	1yr 125	Ala	116	Asn	
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	Asn										-	-	-			
	130					135					140					
	gcc											-		-		480
	Ala	Ile	Val	Gln		Thr	Lys	Ser	Phe		Leu	Arg	Ser	Arg		
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	Pro	-	-				-						_		-	320
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	agc													•		624
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	cct															. 720
225	Pro	Leu	Met	Pne	230	. I Le	Phe	Сув	Tyr	235		Ile	Val	Lys	1hr 240	
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	Val															
				245					250					255		
	gct														-	816
Ile	Ala	Val		Leu	Val	Phe	Leu		Cys	Gln	Ile	Pro		Asn	Met	
atc	ctg	ctt	260 ata	aco	act	aca	aat	265	aat	aaa	ato	aac	270	tcc	tac	864
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#### GENERAL INFORMATION SECTION

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Application File Date: 2005-08-31

Art Unit:

Software Application: PatentIN3.1

Total Number of Sequences: 21

Total Nucleotides: 6079 Total Amino Acids: 1396 Number of Errors: 0

Number of Warnings: 0 Number of Corrections: 0